

CLAIMS

1. A card adapter used to couple a compact memory card compliant with a second specification to a CF card slot compliant with a CompactFlash Association Standard or a first specification, the card adapter comprising a
5 circuit board and a card case,

the circuit board including:

a first connector compliant with the first specification;

a second connector compliant with the second specification; and

10 a signal processing circuit connected to the first connector and the second connector to convert signals between the first specification and the second specification; and

the card case accommodating the circuit board and including:

15 an inlet for the compact memory card at right angle to an insertion direction of the card slot compliant with the first specification,

wherein a holder for the compact memory card is formed of a housing of the second connector and the card case, and the card case is used as a top portion of the holder.

20 2. The card adapter of claim 1,

wherein the circuit board mounts the first connector, the second connector and the signal processing circuit in a same surface, and has a foldable structure.

25 3. The card adapter of claim 1,

wherein the circuit board comprises a main board, a sub-board and a flexible bend to connect the main board and the sub-board, and is folded at

the flexible bend to insert into the card holder, and

the main board and the sub-board faces each other in the card case.

4. The card adapter of claim 3,

5 wherein the sub-board mounts the first connector and the second
connector in a same surface,

the main board mounts the signal processing circuit in the same
surface, and

10 the first connector and the second connector are connected via the
signal processing circuit.

5. The card adapter of claim 3,

wherein at least one of the main board and the sub-board in a folded
structure has an opening equal to or wider than the holder in a portion
15 corresponding to the holder.

6. The card adapter of claim 3,

wherein the main board is L-shaped and is positioned on the second
connector housing when the main board is folded.
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7. The card adapter of claim 3,

wherein the holder is formed between one surface of the card case and
the sub-board.

25 8. The card adapter of claim 3,

wherein the holder is formed by one surface of the card case, the
sub-board and the housing of the second connector.

9. The card adapter of claim 3,
wherein housing of the second connector holds a distance between the
main board and the sub-board facing each other.

5 10. the card adapter of claim 1,
wherein the circuit board connects the first connector and the second
connector electrically, and mounts a circuit to convert a pin arrangement.

10 11. A card adapter used to couple a compact memory card compliant
with a second specification to a CF card slot compliant with a CompactFlash
Association Standard or a first specification comprising a circuit board and a
card case,

the circuit board including:

a first connector compliant with the first specification;

15 a second connector compliant with the second specification; and

a signal processing circuit connected to the first connector and the
second connector to convert between signals compliant with the first
specification and signals compliant with the second specification; and

the card case accommodating the circuit board and including:

20 an inlet for the compact memory card at right angle to an
insertion direction of the card slot compliant with the first specification; and

a holder for the compact memory card inserted from the inlet,

wherein the circuit board mounts the signal processing circuit, the
first connector and the second connector on one surface, and has a structure
25 enable to fold until both of the circuit boards face each other,

and wherein the surface mounted with the signal processing circuit is
appressed to a circuit board support provided on a housing of the second

connector to keep a distance between both of the folded circuit boards in a prescribed dimension.

12. The card adapter of claim 11,

5 wherein the circuit board connects the first connector and the second connector electrically, and mounts a circuit to convert a pin arrangement.

13. A card adapter used to couple a compact memory card compliant with a second specification to a CF card slot compliant with a CompactFlash
10 Association Standard or a first specification comprising a circuit board and a card case,

the circuit board comprising:

a first connector compliant with the first specification;

a second connector compliant with the second specification; and

15 a signal processing circuit connected to the first connector and the second connector to convert between signals compliant with the first specification and signals compliant with the second specification;
and

the card case accommodating and including the circuit board
20 comprising:

an inlet for the compact memory card at right angle to an insertion direction of the card slot compliant with the first specification; and

a holder for the compact memory card inserted from the inlet;

wherein the circuit board mounts the signal processing circuit, the
25 first connector and the second connector on one surface, and has a structure enable to fold until both of the circuit boards face each other,

and wherein the circuit board in a folded structure where the both

circuit boards face each other is bonded to the card case using an insulating adhesives to keep a distance between both of the folded circuit boards in a prescribed dimension.

5 14. The card adapter of claim 13,

 wherein the card case has a top surface and a bottom surface, and the main board is bonded inside of the top surface via an insulating adhesive layer and the sub-board is bonded inside of the bottom surface via the adhesive layer.

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 15. The card adapter of claim 13,

 wherein the circuit board connects the first connector and the second connector electrically, and mounts a circuit to convert a pin arrangement.